

Lesson 8 Reteach

Estimate Products

EXAMPLE

To estimate a product, round each number. Then use a basic fact and a multiplication pattern to multiply mentally.

	Estimate 27×643 .	Estimate 54×761 .
Round each number to its greatest place.	$\begin{array}{ccc} 27 & \times & 643 \\ \downarrow & & \downarrow \end{array}$	$\begin{array}{ccc} 54 & \times & 761 \\ \downarrow & & \downarrow \end{array}$
Write the basic fact.	$\begin{array}{ccc} 30 & \times & 600 = 18,000 \\ \uparrow & & \uparrow \end{array}$	$\begin{array}{ccc} 50 & \times & 800 = 40,000 \\ \uparrow & & \uparrow \end{array}$
Then, write the same number of zeros in the product as are in both factors.	$\begin{array}{ccc} 1 \text{ zero} & + & 2 \text{ zeros} = 3 \text{ zeros} \\ \uparrow & & \uparrow \end{array}$	$\begin{array}{ccc} 1 \text{ zero} & + & 2 \text{ zeros} = 3 \text{ zeros} \\ \uparrow & & \uparrow \end{array}$

Estimate by rounding. Show your work.

1.
$$\begin{array}{ccc} 54 & \times & 68 \\ \downarrow & & \downarrow \\ \underline{\quad} & \times & \underline{\quad} = \underline{\quad} \end{array}$$

2.
$$\begin{array}{ccc} 61 & \times & 239 \\ \downarrow & & \downarrow \\ \underline{\quad} & \times & \underline{\quad} = \underline{\quad} \end{array}$$

3.
$$\begin{array}{ccc} 697 & \times & 43 \\ \downarrow & & \downarrow \\ \underline{\quad} & \times & \underline{\quad} = \underline{\quad} \end{array}$$

4.
$$\begin{array}{ccc} 364 & \times & 28 \\ \downarrow & & \downarrow \\ \underline{\quad} & \times & \underline{\quad} = \underline{\quad} \end{array}$$

5. 8×674

6. 9×458

7. 43×104

8. 19×74

9. 84×13

10. 21×663

11. 38×573

12. 18×264
